

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 1333 | (422/98).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/10/13 17:11 |
| L2    | 619  | (436/149).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/10/13 17:11 |
| L3    | 0    | (436/1150).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/10/13 17:11 |
| L4    | 557  | (436/150).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/10/13 17:11 |
| L5    | 419  | (436/151).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/10/13 17:11 |
| L6    | 94   | (436/153).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/10/13 17:11 |
| L7    | 1038 | 422/82.01   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/10/13 17:11 |
| L8    | 36   | (L1 or L2 or L3 or L4 or L5 or L6 or L7) and((resonan\$4 or resonat\$4) near frequenc\$3) and dielectric near constant\$1 and (sampl\$3 or specimen\$1) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/10/13 17:11 |
| S2    | 1282 | (422/98).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/06/15 19:08 |

## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S3  | 567  | (436/149).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/15 19:09 |
| S5  | 534  | (436/150).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/15 19:09 |
| S6  | 394  | (436/151).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/15 19:09 |
| S7  | 94   | (436/153).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/15 19:09 |
| S8  | 10   | (("5020920") or ("5468964") or<br>("5886534") or ("4413531")).PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/15 19:27 |
| S9  | 2096 | ((resonan\$4 or resonat\$4) near<br>frequenc\$3) and dielectric near<br>constant\$1 and (sampl\$3 or<br>specimen\$1) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/10/13 17:11 |
| S10 | 1048 | S9 and pattern\$3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/06/15 19:21 |
| S11 | 563  | S10 and microwave  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/06/15 20:07 |
| S12 | 440  | S10 and RF   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/06/15 20:07 |
| S13 | 267  | S11 and S12  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/06/15 19:22 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S14 | 191 | S13 and shift\$3                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 19:56 |
| S15 | 24  | S14 and resonance near shift\$3          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 19:56 |
| S16 | 608 | complex near dielectric near constant\$1 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:05 |
| S17 | 228 | S16 and microwave                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:07 |
| S18 | 103 | S16 and RF                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:07 |
| S19 | 61  | S17 and S18                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:12 |
| S20 | 925 | 422/82.01                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/13 17:10 |
| S21 | 117 | S16 and resonan\$4 near frequenc\$2      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:38 |
| S22 | 49  | S21 and pattern\$3                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:39 |
| S23 | 177 | S16 and concentration\$1                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:37 |

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|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S24 | 43   | S21 and S23  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:17 |
| S25 | 20   | S22 and S23  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:18 |
| S26 | 2001 | (S2 or S3 or S4 or S5 or S6 or S7 or S20) and concentration\$1                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:38 |
| S27 | 111  | S26 and resona\$4 near frequenc\$2   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:57 |
| S28 | 60   | S27 and pattern\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:39 |
| S29 | 24   | S28 and microwave  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:40 |
| S30 | 34   | S28 and RF   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:40 |
| S31 | 20   | S29 and S30  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:40 |
| S32 | 35   | ("2755436"   "3464005"   "3965416"   "4396062"   "4499418").PN. OR ("5025222").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2005/06/15 20:45 |
| S33 | 1    | S27 and "parallel plate resonator"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/06/15 20:58 |

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|     |      |                                   |   |    |     |                  |
|-----|------|-----------------------------------|---|----|-----|------------------|
| S34 | 53   | "parallel plate resonator"        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/06/15 21:37 |
| S35 | 1    | S34 and ("422"/\$7 or "436"/\$7)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/06/15 20:58 |
| S37 | 2    | ("6261519").PN.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/15 21:37 |
| S38 | 4    | (("6169466") or ("4206,399")).PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 13:17 |
| S39 | 2    | ("4,361,801").PN.                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 13:38 |
| S40 | 1282 | (422/98).CCLS.                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 13:41 |
| S41 | 567  | (436/149).CCLS.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 13:41 |
| S42 | 534  | (436/150).CCLS.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 13:41 |
| S43 | 394  | (436/151).CCLS.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 13:41 |
| S44 | 94   | (436/153).CCLS.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 13:41 |

## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S45 | 16   | (S40 or S41 or S42 or S43 or S44) and resonator and ((resonant near3 frequen\$3) or resosnance near3 frequen\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/23 14:45 |
| S46 | 2    | (S40 or S41 or S42 or S43 or S44) and (resonator with adjust\$3)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/23 13:56 |
| S47 | 38   | ("422"/\$7 or "436"/\$7) and (resonator with adjust\$3)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/23 13:57 |
| S48 | 99   | ((resonant near3 frequen\$3) or resosnance near3 frequen\$3) near7 shift\$3) and (width near3 chang\$3)          | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/23 14:49 |
| S49 | 10   | S48 and concentration  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/23 14:50 |
| S50 | 21   | ("4155035"   "4297874"   "4581575"   "4885527").PN. OR ("5397993").URPN.   | US-PGPUB; USPAT; USOCR                    | OR | ON | 2005/06/23 15:04 |
| S51 | 21   | ("4155035"   "4297874"   "4581575"   "4885527").PN. OR ("5397993").URPN.   | US-PGPUB; USPAT; USOCR                    | OR | ON | 2005/06/23 15:04 |
| S52 | 8866 | ((dielectric adj constant ) or permittivity) and ((resonant or resonance) near frequenc\$3)                      | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/23 16:39 |
| S53 | 3005 | S52 and shift\$3   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/23 16:39 |